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[54] 发明名称 有机电致发光元件

[57] 摘要

本发明的新型化合物具有位于中心的二苯基蒽结构和在末端部分被芳基取代的特定结构。本发明的有机电致发光元件包括多层有机化合物薄膜,其中包括发光层或包含发光层的多层并位于一对电极之间,且至少一层有机化合物薄膜包含以上的新型化合物。该新型化合物具有优异的发光效率和耐热性,寿命长并发出颜色纯度优异的蓝色光,而且该有机电致发光元件包含该新型化合物并具有相同的有利性能。

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Organic electroluminescent element

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The novel compound of the present invention has the diphenylanthracene structure at the center and a specific structure substituted with an aryl group at end portions. The organic electroluminescence device of the present invention comprises a plurality of layers of thin films of organic compounds which comprise a light emitting layer or a plurality of layers comprising a light emitting layer and are disposed between a pair of electrodes and at least one of the layers of thin films of organic compounds comprises the above novel compound. The novel compound exhibits excellent efficiency of light emission and heat resistance has a long life and emits bluish light having excellent purity of color and the organic electroluminescence device comprises the novel compound and exhibits the same advantageous properties.

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